



62681-Z.ST25
SEQUENCE LISTING

<110> Chang, Yuan

Patrick, Moore S

<120> Spliced Gene of KSHV/HHV8, Its Promoter and Monoclonal Antibodies Specific for LANA2

<130> 62681-Z

<140> 10/656,499

<141> 2003-09-05

<150> 09/733,728

<151> 2000-12-08

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 1704

<212> DNA

<213> Kaposi's sarcoma associated herpesvirus

<400> 1

atggcgggac gcaggcttac ctggatttct gagtttattg taggtgcttt ggactctgat	60
aaatatcctt tggatcaagt gctagataga tctactggaa catttcttgc tccggctgcc	120
cgtaatgacg taattcctct ggatagccta cagtttttca ttgattttaa gagggaatgc	180
ctatcgaagg gcctgcatcc cagagattta ctgggctcgc cgattacggc ttttgggaaa	240
atatgtacca cgtcgcggcg ccttagacgc ttgccagggtg aagagtacga ggtcgtacag	300
ggaattaatt gtagaagggtg ggcctcctctg tgtgccgagg taaaggaatg ctggtggtgc	360
gttcatgccca ggactcacct acacagtggg tcatcactat gggaaatttt gtatcaacac	420

62681-Z.ST25

```

agtgtacggc tcgagaagca tcggagaaga ccaaggaggc catttgtggg tgaaaactcg 480
gattccagtg aggaggatca cccagccttt tgcgatgtgc cggtcacgca gacgggcgcg 540
gaatctgagg actctggaga cgagggacca tcgacgcgcc atagtgcgtc tggggttcag 600
ccagttgatg atgccaatgc cgactctcct ggctctggag acgaaggacc ctcgacgcgt 660
catagcgact cgcagccccc cccggccgat gaaacaacgg tgcacacaga caacgttgaa 720
gatgacctca cactgcttga taaagaatct gcatgtgcat tgatgtacca cgtgggacag 780
gagatggaca tgctaattgag ggcgatgtgc gatgaagacc tctttgatct gcttggcatc 840
ccagaggatg ttatcgcaac atcacagccc ggaggcgaca cggatgcaag cggcgtggta 900
acagagggct caatcgccgc ctcggctgtc ggggcgggtg tagaggatgt gtacttagct 960
ggggcactcg aggcccagaa tgtagcaggg gaatatgtgt tggagataag tgacgaagaa 1020
gtcgatgatg gtgctggact gccgccggcg tccagacgcc ggccagttgt tggcgaattt 1080
ttatgggatg atgggccacg gagacacgag aggcctacca cgaggcgcat tcgccacagg 1140
aagcttagat ccgcatatta tagagtggca cggccgccag taatgataac cgataggctt 1200
ggtgtggaag tgttttatth tggccgccct gcaatgtctt tggaaagtga acgaaagggtg 1260
tttattctat gttcccagaa cccactggca gacattagcc actcttgctt gcattcgcgc 1320
aaagggttaa gagttttgth gcccaaact gacgacaata acacagggcc aggagacgtt 1380
aacctgctgg cggccgtgct gcgctcgttt gcttcgggtc ttgtgatagt ttctctccga 1440
tctggcattt atgttaagaa tttgtgcaag tctaccgtat tataatcatg aaataatcct 1500
ccaaagaagt ttggtgtgat ctgaggactg tcatctaggg ctgttctgga tgtttttaat 1560
gtggcacaat atcgcataca gggacatgag cacattaaaa aaacaactgt gttcatcgga 1620
ggtgacccaa cgtcggcaga acagttcgat atgggtcccc tcgtcatcaa gtcagattg 1680
cgttcagtta catgtgatga ctaa 1704

```

<210> 2

<211> 567

<212> PRT

<213> Kaposi's sarcoma associated herpesvirus

<400> 2

Met Ala Gly Arg Arg Leu Thr Trp Ile Ser Glu Phe Ile Val Gly Ala
 1 5 10 15

Leu Asp Ser Asp Lys Tyr Pro Leu Val Lys Trp Leu Asp Arg Ser Thr
 Page 2

20

25

30

Gly Thr Phe₃₅ Leu Ala Pro Ala Ala₄₀ Arg Asn Asp Val Ile₄₅ Pro Leu Asp
 Ser Leu₅₀ Gln Phe Phe Ile Asp₅₅ Phe Lys Arg Glu Cys₆₀ Leu Ser Lys Gly
 Leu His₆₅ Pro Arg Asp Leu₇₀ Leu Gly Ser Pro Ile₇₅ Thr Ala Phe Gly Lys₈₀
 Ile Cys Thr Thr Ser₈₅ Arg Arg Leu Arg Arg₉₀ Leu Pro Gly Glu Glu₉₅ Tyr
 Glu Val Val Gln₁₀₀ Gly Ile Asn Cys Arg₁₀₅ Arg Trp Arg Leu Leu₁₁₀ Cys Ala
 Glu Val Lys₁₁₅ Glu Cys Trp Trp Cys₁₂₀ Val His Ala Arg Thr₁₂₅ His Leu His
 Ser Gly₁₃₀ Ser Ser Leu Trp Glu₁₃₅ Ile Leu Tyr Gln His₁₄₀ Ser Val Arg Leu
 Glu Lys His Arg Arg Arg₁₅₀ Pro Arg Arg Pro Phe₁₅₅ Val Gly Glu Asn Ser₁₆₀
 Asp Ser Ser Glu₁₆₅ Glu Asp His Pro Ala Phe₁₇₀ Cys Asp Val Pro Val₁₇₅ Thr
 Gln Thr Gly Ala₁₈₀ Glu Ser Glu Asp Ser₁₈₅ Gly Asp Glu Gly Pro₁₉₀ Ser Thr
 Arg His Ser₁₉₅ Ala Ser Gly Val Gln₂₀₀ Pro Val Asp Asp Ala₂₀₅ Asn Ala Asp
 Ser Pro Gly Ser Gly Asp Glu₂₁₅ Gly Pro Ser Thr Arg₂₂₀ His Ser Asp Ser
 Gln Pro Pro Pro Ala Asp₂₃₀ Glu Thr Thr Val His₂₃₅ Thr Asp Asn Val Glu₂₄₀
 Asp Asp Leu Thr Leu₂₄₅ Leu Asp Lys Glu Ser₂₅₀ Ala Cys Ala Leu Met₂₅₅ Tyr
 His Val Gly Gln₂₆₀ Glu Met Asp Met Leu₂₆₅ Met Arg Ala Met Cys₂₇₀ Asp Glu

62681-Z.ST25

Asp Leu Phe Asp Leu Leu Gly Ile Pro Glu Asp Val Ile Ala Thr Ser
275 280 285

Gln Pro Gly Gly Asp Thr Asp Ala Ser Gly Val Val Thr Glu Gly Ser
290 295 300

Ile Ala Ala Ser Ala Val Gly Ala Gly Val Glu Asp Val Tyr Leu Ala
305 310 315 320

Gly Ala Leu Glu Ala Gln Asn Val Ala Gly Glu Tyr Val Leu Glu Ile
325 330 335

Ser Asp Glu Glu Val Asp Asp Gly Ala Gly Leu Pro Pro Ala Ser Arg
340 345 350

Arg Arg Pro Val Val Gly Glu Phe Leu Trp Asp Asp Gly Pro Arg Arg
355 360 365

His Glu Arg Pro Thr Thr Arg Arg Ile Arg His Arg Lys Leu Arg Ser
370 375 380

Ala Tyr Tyr Arg Val Ala Arg Pro Pro Val Met Ile Thr Asp Arg Leu
385 390 395 400

Gly Val Glu Val Phe Tyr Phe Gly Arg Pro Ala Met Ser Leu Glu Val
405 410 415

Glu Arg Lys Val Phe Ile Leu Cys Ser Gln Asn Pro Leu Ala Asp Ile
420 425 430

Ser His Ser Cys Leu His Ser Arg Lys Gly Leu Arg Val Leu Leu Pro
435 440 445

Lys Pro Asp Asp Asn Asn Thr Gly Pro Gly Asp Val Asn Leu Leu Ala
450 455 460

Ala Val Leu Arg Ser Phe Ala Ser Gly Leu Val Ile Val Ser Leu Arg
465 470 475 480

Ser Gly Ile Tyr Val Lys Asn Leu Cys Lys Ser Thr Val Leu Tyr His
485 490 495

Gly Asn Asn Pro Pro Lys Lys Phe Gly Val Ile Cys Gly Leu Ser Ser
500 505 510

Arg Ala Val Leu Asp Val Phe Asn Val Ala Gln Tyr Arg Ile Gln Gly
515 520 525

62681-Z.ST25

His Glu His Ile Lys Lys Thr Thr Val Phe Ile Gly Gly Asp Pro Thr
 530 535 540

Ser Ala Glu Gln Phe Asp Met Val Pro Leu Val Ile Lys Leu Arg Leu
 545 550 555 560

Arg Ser Val Thr Cys Asp Asp
 565

<210> 3

<211> 648

<212> DNA

<213> Kaposi's sarcoma associated herpesvirus

<400> 3

cataatcgag aacctgaagg gtcccggtac gcgtccctgt ttctgggccg ccggccgctg	60
cctgaatatg actcggatca ctatccagtc attttgcaca tttaccttgc cccattttac	120
cacagagact aaaattttga caagtcttct tgtcactcat tgccgttaga aaccaggctc	180
tatccgcaac ttctatgttt cctgttatag taggccccatg tgggcttggg agtggccaaa	240
ctcactgagt gggacatcat taaaggttag cgccaccgtg tggctgcaaa ataaagtctg	300
agtggttatt tttttcctag gcggttgggg ttcactcagc tgccaaggca agggggtgtc	360
ccctgcaatg caaggtaatg aggttagtaa agtaagacaa acatgtgggc ttcattatgc	420
atgcaatacc ctgtttcaaa gctgggtccgg ggcagcatca ccccagatct tcttgccagc	480
gctggagagc acgattcata gtgagaaaca catgtgtcta atacaggcaa tgctttttga	540
cccgtgactg aagggttaaag ctgcaggaag catgttgtgg tttgcgtagt agattacttc	600
tgttgaggtg gggtaatgct cggaggcaga ccattctgac aggtcaac	648